ENVIRONMENTAL CHEMISTS

Date of Report: April 17, 1996 Date Received: April 11, 1996

Project: Metro Self Monitor, PO #M 52948 Date Samples Extracted: April 11, 1996 Date Extracts Analyzed: April 11, 1996

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	Chromium	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M52948	0.44	0.34	0.23	< 0.05
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: April 17, 1996 Date Received: April 11, 1996

Project: Metro Self Monitor, PO #M 52948

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Samples Processed Using Method 3005A

Laboratory Code: 67839 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromiun	n mg/L (ppm)	0.44	0.41	7	0-20
Copper	mg/L (ppm)	0.34	0.31	9	0-20
Nickel	mg/L (ppm)	0.23	0.22	4	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: 67839 (Matrix Spike)

		Reporting	Spike		% MS	Recovery	Acceptanc	
Analyte:	10 a 1	Units	Leve	l Result	1/10	S MSD	Criteria	Difference
Chromium	1	mg/L (ppm)	5	0.44	106	112	80-120	6
Copper		mg/L (ppm)	5	0.34	107	113	80-120	5
Nickel		mg/L (ppm)	10	0.23	106	113	80-120	6
Zinc		mg/L (ppm)	5	< 0.05	108	114	80-120	5

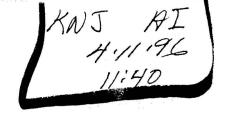
Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% F MS	Recovery MSD	Acceptanc Criteria	Relative e Percent Difference
Chanaira	ma/I (nm)	E	112	111	80-120	
Chromium Copper	mg/L (ppm) mg/L (ppm)	5 5	112	111	80-120	1
Nickel	mg/L (ppm)	10	116 116	116 116	80-120 80-120	0
Zinc	mg/L (ppm)	9	116	116	80-120	U

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

1 Rib DMAN & BRUYA, INC.
18012 1801 Avenue West
18012 1801 285-3282





ional Report To: Alas Tompuny Has	KAN Coppen	Works		Contact (ERAW Thom	275.)
Address 1.28 A	ANGORE 1 ST.			Contact_O	C C/4CO	120~
'ну, Sane, Z ip<u>. Se</u>д Trone # (1716) - 3 8	HILE WA 9	78/34		Date	4-11-96	
IVE NO.		PROJ	ECT NAME		PURCHASE ORD	ER#
7258		METRO			n 52948	
-MELER ((gnature)	· · · · · · · · · · · · · · · · · · ·				PROJECT LOCAT	LION
ss 19.	2				200 6th 1	
Canadas				SA D	MPLE DISPOSAL INF Dispose after 30 d	
					Return Samples Call for Instruction	
Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyse Request	es
7 57198	10130 Am 4-11	H20	/	67839		Vi 2~
		e .				
a many common and growing to wright more any plus appropria						
A CONTROL OF THE CONT					±å,	,
and the same of th					-	
Model Taken for consecutifications as a second seco						
e ar i e differenti e e ga manor (fago) e pografi y ganor						
A CONTRACTOR OF THE PARTY OF TH						
DO CONTROL OF THE STATE OF THE						
	<u> </u>					
the second of the second secon	1					
es alsoni ferrorena e a speciel	-					
And that the growth and the second	-				·	
Control Control	DD.	INT NAME		COMPANY	Date	Tines
Aparter W		INTINAME		1 0	1	
	- GERAG	Transso	س ا	A.C.W	4/11/26	11:00
11 wu	ing CAThi	1 DWN'N	6 F	HRI	4/11/96	11:00
ing plate.		7			1777	
Section .						+
Sandan araka eta kanan araka a						

09/19/94

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

April 17, 1996

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on April 11, 1996 from your Metro Self Monitor, PO #M 52948 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

keh

Enclosures

FAX: 382-7335 ACU0417R.DOC

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

April 17, 1996

INVOICE # 96ACU0417-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M 52948: Results of testing requested by Gerry Thompson, Project Manager for material submitted on April 11, 1996.